

Title (en)
METHOD FOR PRODUCTION OF SILVER-CONTAINING NANO-STRUCTURE, AND SILVER-CONTAINING NANO-STRUCTURE

Title (de)
VERFAHREN ZUR HERSTELLUNG EINER SILBERHALTIGEN NANOSTRUKTUR UND SILBERHALTIGE NANOSTRUKTUR

Title (fr)
PROCÉDÉ DE PRODUCTION DE NANOSTRUCTURE CONTENANT DE L'ARGENT, ET NANOSTRUCTURE CONTENANT DE L'ARGENT

Publication
EP 2147733 A1 20100127 (EN)

Application
EP 08752655 A 20080513

Priority
• JP 2008058775 W 20080513
• JP 2007130375 A 20070516

Abstract (en)
Disclosed is a method for producing a silver-containing nanostructure which can reduce the time required for a post treatment step and the amount of a waste material and which is achieved by the application of the reduction reaction of silver oxide; and a silver-containing nanostructure having a specific structure, which can be produced by the method. Specifically disclosed is a method for producing a silver-containing nanostructure, including dispersing a polymeric compound in which a hydrophilic segment is bonded to a polyalkyleneimine chain in a medium, adding silver oxide thereto, and carrying out a reduction reaction of the silver oxide, thereby obtaining a silver-containing nanostructure. In the method, a structure having a branched structure can be produced when a specific compound is used as a complexing agent. The silver-containing nanostructure thus produced can be used as a conductive paste or the like.

IPC 8 full level
B22F 9/20 (2006.01); **B22F 1/0545** (2022.01); **B82B 1/00** (2006.01); **B82B 3/00** (2006.01); **C08K 3/08** (2006.01); **C08L 79/02** (2006.01); **H01B 1/22** (2006.01)

CPC (source: EP KR US)
B22F 1/0545 (2022.01 - EP KR US); **B22F 1/0553** (2022.01 - EP KR US); **B22F 9/20** (2013.01 - KR); **B22F 9/24** (2013.01 - EP US); **B82B 1/00** (2013.01 - KR); **B82B 3/00** (2013.01 - KR); **B82Y 30/00** (2013.01 - EP US); **B82Y 40/00** (2013.01 - EP US); **C08G 73/0206** (2013.01 - EP US); **C08K 3/08** (2013.01 - KR); **C08L 79/02** (2013.01 - EP US); **H01B 1/22** (2013.01 - EP US); **C08K 3/08** (2013.01 - EP US)

Cited by
WO2015000937A1; EP2441796A1; WO2015000932A1; WO2013171210A1; EP3099145A1; EP2781562A1; WO2014147079A1; EP3099146A1; WO2016189016A1; EP2671927A1; WO2013182588A1; US9771485B2; EP2821164A1; WO2015000891A1; EP3287499A1; WO2018037072A1; EP3037161A1; US10676630B2; EP2608218A1; WO2013092450A1; US9240258B2; WO2019215068A1; EP2468827A1; WO2012084813A1; US9275773B2; US9839961B2; EP2608217A1; WO2013092576A1; US9243159B2; EP4163343A1; WO2023057419A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
EP 2147733 A1 20100127; **EP 2147733 A4 20121212**; CN 101678460 A 20100324; CN 101678460 B 20120704; JP 4257621 B2 20090422; JP WO2008143061 A1 20100805; KR 101041880 B1 20110616; KR 20090117812 A 20091112; US 2010120960 A1 20100513; US 8088437 B2 20120103; WO 2008143061 A1 20081127

DOCDB simple family (application)
EP 08752655 A 20080513; CN 200880016199 A 20080513; JP 2008058775 W 20080513; JP 2008550578 A 20080513; KR 20097019384 A 20080513; US 45137808 A 20080513